**Water Cycle Web Quest**

The water cycle plays a major role in maintaining life on earth. Not only does the water cycle help sustain life on earth it also is a huge influence on the weather.

1. To understand the water cycle you must first understand where our water comes from. Using the link below explore the representation of the water cycle found on this site. Then answer the questions below.

<http://earthguide.ucsd.edu/earthguide/diagrams/watercycle/>

Questions:

1. What are the four main stages of the water cycle? Draw a representation of the water cycle and label each of the stages.
2. Taking into account your knowledge of NB, where does water exist?
3. What are some major reservoirs of water found in the Sussex area?

1. There are many natural reservoirs of freshwater (ground water, ice, rivers, lake, the atmosphere, …). Explore the following website to understand freshwater storage. Once you have explored the site answer the questions below.

<http://ga.water.usgs.gov/edu/watercyclefreshstorage.html>

Questions:

1. What are the inputs (inflows) for freshwater sources?
2. How does surface water impact human society and where we choose to live?
3. What are some advantages and disadvantages of using surface water as a source of drinking water?
4. In this activity we will explore ground water. Go to the following webpage and take a look around. Pay close attention to the diagrams and answer the following questions.

<http://pubs.usgs.gov/of/1993/ofr93-643/>

Questions:

1. What is an aquifer?
2. What conditions need to be present in order for rocks to make a good aquifer? What types of rocks are these?
3. Explain what are some advantages and disadvantages of using ground water as a source of drinking water.
4. Now explore the following page to learn about glaciers:

<http://ga.water.usgs.gov/edu/earthglacier.html>

Questions:

1. What are the major types of glaciers?
2. How does a glacier affect the landscape?
3. What are the disadvantages and advantages of using a glacier as a source of drinking water?
4. Using the websites below explore how the water cycle plays a role in the development of weather.

<http://ga.water.usgs.gov/edu/watercycleatmosphere.html>

<http://www.learner.org/interactives/weather/watercycle.html>

<http://www.dummies.com/how-to/content/understanding-the-weathers-water-cycle.html>

<http://www.newton.dep.anl.gov/askasci/wea00/wea00232.htm>

Questions:

1. What is the percentage of water found in the atmosphere?
2. How does water move from the surface of the earth to the atmosphere and how does it return to the surface of the earth.
3. What role does the water cycle play in the formation of clouds?
4. Why are oceans so important to consider when tracking the weather events?
5. How can ocean cycles affect the weather? (Think El Nino and La Nina)